# **INSTANT STARTING FLUID**

Revision Date: 2004/07/07

# **Section 1: PRODUCT INFORMATION**

Chemical family: Mixture.

**Supplier:** Same as manufacturer.

Emergency Phone Number: Canutec 613–996–6666.

Manufacturer: Radiator Specialty Company of Canada

1711 Aimco Blvd. Mississauga, Ontario

L4W 1H7.

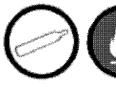
**TDG** classification:

AEROSOLS UN1950 Class 2.1.



WHMIS classification:

A, B5, D2B.







**DSL status:** The substance(s) listed in section 2 appear on the Domestic Substances List.

## **Section 2: HAZARDOUS INGREDIENTS**

C.A.S.	CONCENTRATION %	Ingredient Name	T.L.V	LD/50	LC:50
124-38-9	5-10	CARBON DIOXIDE	5000 PPM	NOT AVAILABLE	NOT AVAILABLE
142-82-5	40-70	MIXED ISOMERIC HEPTANES	400 PPM	NOT AVAILABLE	103,000 MG/M3/4H RAT INHALATION
60-29-7	30-60	I,I-OXYBISETHANE		1215 MG/KG RAT ORAL >20 ML/KG RABBIT DERMAL 1760 MG/KG MOUSE ORAL	31000 PPM:30 M MOUSE INHALATION

# Section 2A: ADDITIONAL INGREDIENT INFORMATION

Note: (supplier).

CAS# 142-82-5: LD50 >15,000 mg/kg rat oral.

Cas# 60-29-7 LC50 30,000 ppm.

Cas# 60-29-7 LD50 >14,200 mg/kg rabbit dermal.

## **Section 3: PHYSICAL DATA**

Physical state: Liquid (aerosol).

**Appearance & odor:** Ether odour. **Odor threshold (ppm):** Not available.

Vapour pressure (mmHg): (ether).

537

Vapour density (air=1): >1

Volatiles (%)

By volume: 100

Evaporation rate >1 (butyl acetate = 1):

**Boiling point (°C):** (ether).

Freezing point (°C): (ether).

-116

pH: Not available.

Specific gravity @ 20 °C: (ether).

0.713

Solubility in water (%): Slight.

Coefficient of water\oil dist.: Not available.

**VOC:** Not available.

## Section 4: FIRE & EXPLOSION DATA

Flammability: Flammable.

Conditions of flammability: Vapours may travel to a source of ignition and flash back.

Heat, sparks and open flames.

Extinguishing media: Carbon dioxide, dry chemical, foam.

**Special procedures:** Self-contained breathing apparatus required.

Firefighters should wear the usual protective gear. Use water spray to cool fire exposed containers. Remove containers from fire area if without risk.

Auto-ignition temperature: Not available.

Flash point (°C), method: Tag Closed Cup.

(ether). -49

Lower flammability Not available.

limit (% vol):

Upper flammability

limit (% vol):

Not available.

**Explosion Data** 

**Sensitivity to static discharge:** May be sensitive.

**Sensitivity to mechanical impact:** Not available.

**Hazardous combustion products:** Oxides of carbon (CO, CO2).

**Explosive power:** Vapours are heavier than air and may collect in low-lying areas.

Container explosion may occur.

#### Section 5: REACTIVITY DATA

Chemical stability: Stable under normal conditions.

Conditions of instability: Heat, sparks & open flame.

Direct sunlight.

Hazardous polymerization: Will not occur.

**Incompatible substances:** Amines.

Oxidizing agents.

Acids

Hazardous decomposition

products:

See hazardous combustion products.

## Section 6: TOXICOLOGICAL PROPERTIES

Route of entry: Skin contact, eye contact, inhalation and ingestion.

Effects of acute exposure

Eye contact: May cause moderate irritation.

May cause freeze burns.

Skin contact: May cause frostbite.

May cause moderate to severe irritation.

**Inhalation:** May affect the central nervous system.

May cause respiratory irritation.

May cause headache, dizziness and nausea. May cause nose and throat irritation. Propellant is a simple asphyxiant.

**Ingestion:** May be harmful if swallowed.

May cause nausea, vomiting and diarrhea.

May cause irritation to mouth, throat and stomach.

Aspiration hazard if swallowed.

Effects of chronic exposure: Pre-existing eye, skin and respiratory disorders may be aggravated.

Prolonged or repeated overexposure may cause drying and cracking of the skin

(dermatitis).

**LD50 of product, species & route:** Not available for mixture, see the ingredients section.

LC50 of product, species & route: Not available for mixture, see the ingredients section.

**Exposure limit of material:** Not available for mixture, see the ingredients section.

**Sensitization to product:** None known.

**Carcinogenic effects:** None of the ingredients appearing in Section 2 are listed as carcinogens.

**Reproductive effects:** None known.

Teratogenicity: None known.

Mutagenicity: None known.

Synergistic materials: Not available.

### **Section 7: PREVENTATIVE MEASURES**

## **Precautionary Measures**

Gloves/Type:



Impervious gloves.

**Respiratory/Type:** If TLV is exceeded.



Wear a NIOSH approved organic vapour respirator.

Eye/Type:



Safety glasses with side-shields.



Or goggles.

Footwear/Type: Safety shoes per local regulations.

Clothing/Type:



Chemical apron.

**Other/Type:** Eye wash facility should be in close proximity.

Emergency shower should be in close proximity.

Ventilation requirements: Local exhaust and mechanical ventilation to maintain exposure below TLV.

**Leak/Spill:** Eliminate all sources of heat and ignition.

Contain the spill.

Prevent entry into drains, sewers, and other waterways.

Stop leak if without risk.

Ventilate area.

Wear appropriate protective equipment. Notify the appropriate authorities as required. Place in a closed container for disposal.

Waste disposal: Dispose in accordance with local, provincial/state, and federal regulations.

Handling procedures and Keep away from heat, sparks, and open flame.

**equipment:** Use adequate ventilation.

Wear personal protective equipment appropriate to task.

Wash clothing before re—use. Wash thoroughly after handling. Avoid smoking in area of use. Keep out of reach of children.

Avoid contact with skin, eyes and clothing.

Avoid inhalation.

Do not puncture, incinerate, or burn.

**Storage requirements:** Store in a dry and well ventilated area.

Store away from incompatible materials. Keep containers closed when not in use. Keep away from heat, sparks, and open flames.

Keep out of direct sunlight. Store below 49°C (120.2°F).

**TDG** classification:

AEROSOLS UN1950 Class 2.1.



**Special shipping information:** Ship as "Limited Quantity".

## **Section 8: FIRST AID MEASURES**

**Skin contact:** Obtain immediate medical attention.

Immediately flush skin with plenty of water and soap for 15 minutes while

removing contaminated clothing and shoes.

**Eye contact:** Flush with water for at least 15 minutes.

Obtain immediate medical attention.

Inhalation: Remove victim to fresh air.

Obtain immmediate medical attention.

**Ingestion:** Never give anything by mouth to an unconscious person.

Do not induce vomiting, seek immediate medical attention.

**Additional information:** The above information is believed to be correct but does not purport to be all

inclusive and shall be used only as a guide. This company shall not be held liable

for any inaccuracies.

## **Section 9: ADDITIONAL INFORMATION**

General note: This material safety data sheet was prepared from information obtained from

various sources, including product suppliers and the Canadian Center for

Occupational Health and Safety.

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